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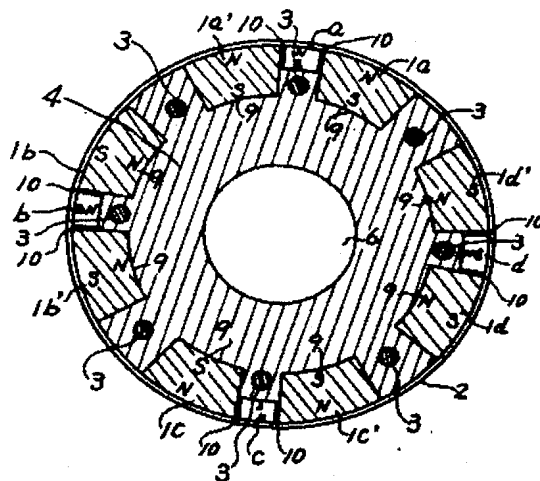
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APPLICANT : HITACHI LTD;

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TITLE : ELECTRIC ROTARY MACHINE



**ABSTRACT :** PURPOSE: To enlarge starting torque, and moreover to reduce high-frequency component of magnetic flux of an electric rotary machine by a method wherein respective poles of field pole are constituted of the first permanent magnets of plural number and the second permanent magnets provided between the first permanent magnets thereof.

**CONSTITUTION:** Grooves 9 are provided on the surface of a field core 4, and the first permanent magnets 1a, 1a'~1d, 1d' are fixed in the grooves 9 respectively in order. The second permanent magnets a~d being thinner having larger holding force, and moreover having larger residual magnetism than the first permanent magnets are provided between the first permanent magnets 1a and 1a', 1b and 1b', 1c and 1c', 1d and 1d'. The permanent magnets 1a, a and 1a' constitute one pole making the N poles to face with an armature 2. Samely, the permanent magnets 1b, b, 1b' constitute one pole making the S poles to face with the armature 2, the permanent magnets 1c, c, 1c' constitute one pole making the N poles to face with the armature 2, and the permanent magnets 1d, d, 1d' form one pole making the S poles to face with the armature 2.

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